

Patent claims

1. An electronically controlled electric motor intended for use in an environment with solvents, with  
5 at least one rotor bearing permanent magnets and a stator having coils, in which motor position sensors for ascertaining a commutating time are arranged in the stator, characterized in that the position sensors (6)  
10 have an electrical conductor (8, 10, 14, 15) which is induced by a moving magnetic field to generate a signal and in that the electrical conductor (8, 10, 14, 15) is produced integrally with connecting leads (7, 11).
2. The electric motor as claimed in claim 1, characterized in that the connecting leads (7, 11) of  
15 the position sensor (6) are led to a solvent-free space.
3. The electric motor as claimed in claim 1 or 2, characterized in that the electrical conductor (8, 14) is designed as a coil.
- 20 4. The electric motor as claimed in at least one of the preceding claims, characterized in that the electrical conductor (10, 15) is designed as a pulse wire arranged transversely with respect to the movement of the magnet poles of the rotor (4).
- 25 5. The electric motor as claimed in at least one of the preceding claims, characterized in that the rotor (3) has position magnets (12) arranged away from its permanent magnets (4) and opposite the position sensor (6).
- 30 6. The electric motor as claimed in at least one of the preceding claims, characterized in that the rotor (3) has a disk (13) which is arranged away from its permanent magnets (4), is in operative connection with the position sensor (6) and has differently  
35 magnetized regions.

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